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S. Dumais, J. Platt, D. Heckerman, and M. Sahami. *Inductive learning algorithms and representation for text categorization*. In *Proceedings of CIKM-98, 7th ACM International Conference on Information and Knowledge Management*, pages 148{ 155, 1998.

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[Effective Methods for Improving Naive Bayes Text Classifiers - Kim, Rim, Yook, Lim](#) (Correct)

....nearest neighbor classifiers[7] naive Bayes classifiers[5] and support vector machines[3] etc. **Among these methods, naive Bayes text classifiers have been widely used because of its simplicity although they have been reported as one of poor performing classifiers in text categorization task[8, 2].** Since several studies show that naive Bayes performs surprisingly well in many other domains[1] it is worth of clarifying the reason that naive Bayes fails in the text classification tasks and improving them. **This paper describes the problems in traditional Naive Bayes text classification ....**

....  $c_j) i=1 \text{ TF}_{ik} P(y_i = c_j | d_i) i=1 \text{ TF}_{is} P(y_i = c_j | d_i) 4)$  The laplacean prior is used to avoid probabilities of zero or one. **For our experiment, parameter is set to 1. This estimation technique has been generally used to implement naive Bayes classifiers in most studies[8, 2, 5].** There are, however, some issues in estimating parameters and calculating scores. **The parameter estimation according to formula (3) regards all of documents belong to  $c_j$  as one huge document. In other words, this estimation method does not take into account the fact that there may be important ....**

[Article contains additional citation **context** not shown here]

S. Dumais, J. Platt, D. Heckerman, and M. Sahami. *Inductive learning algorithms and representation for text categorization*. In *Proceedings of CIKM-98, 7th ACM International Conference on Information and Knowledge Management*, pages 148{ 155, 1998

[Using rough sets to construct sense type decision trees.. - Computing And..](#) (Correct)

....Text categorization, the assignment of natural language texts to one or more predefined categories based on their content, is an important component in information organization and management tasks. **There is an increased interest in developing technologies for automatic text categorization [3].** There are two different ways of approaching the problem: category extraction and category assignment [8] In this paper, we focus on the category extraction problem. **In a previous work [2, 1] following the treatment of strongly typed functional programming languages, we have shown that ....**

S. Dumais, J. Platt, J. Heckerman, and M. Sahami. *Inductive learning algorithms and representations for text categorization*. In *CIKM'98 - Proc. 7th Intl. Conf. on Information and Knowledge Management*, 1998.

[JHU/APL at TREC 2002: Experiments in Filtering and Arabic.. - Paul McNamee Christine](#) (Correct)

....misspelled words, broken plurals, and infix morphology, and empirically evaluated techniques to overcome them. **Larkey et al. [8] investigated methods for effectively stemming Arabic. apIIIaFah1 0.342 0.104 0.377 0.039 a IIIaFah2 0.342 0.104 0.377 0.039 apII 1Faql 0.059 0.09 0.084 0.369 a IIIaFaq2 0.085**

0.118 0.115 0.355 Table 5. **APL Adaptive Results, Assessor topics** Clearly, the heap approach returned too few documents, whereas the queue approach returned too many. **This** is probably mainly due to the much lower amount of feedback. **it** was probably also adversely affected by our choice of ....

....parameter that guessed too often. **Filtering** Results Discussion in a low training feedback situation, **filtering** seems to require more of a Statistical Language Model score based approach. **Based on the good performance possible in situations with lots of training and feedback (as in TREC 2001) there seems to be a continuum between score based and classification approaches, depending on the amount of training and feedback available.** We conjecture a hybrid approach will be useful to support this continuum. **Given** the successful reports of n gram based retrieval for Arabic, we opted ....

[Article contains additional citation **context** not shown here]

S. Dumais, J. Platt, D. Heckerman, M. Sahami, "Inductive Learning Algorithms and Representations for Text Categorization," in Proceedings of the 7th International Conference on Information and Knowledge Management (CIKM 98) (1998).

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PreBIND and Textomy – mining the biomedical.. - Donaldson.. (2003) (Correct)

....(Fig. 2, item 4) Textomy (Fig. 2, item 7) <http://www.litminer.ca> retrieves these abstracts from PubMed and assigns a score that describes the relative likelihood that the abstract contains molecular interaction information. **Textomy, or text anatomy, is text processing software that uses an SVM [19 21] to capture the statistical pattern of word use in papers that have previously been presented to the machine as papers of interest, in this case, a training set of abstracts that discuss biomolecular interactions.** These SVM scores are stored in the PreBIND database (Fig. 2, item 4) Textomy is ....

Dumais S, Platt J, Heckerman D and Sahami M *Inductive learning algorithms and representations for text categorization*. Proceedings of the International Conference on Information and Knowledge Management. 1998, 148-155

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Comparison of Machine Learning and Traditional.. - Chan, Lee.. (2002) (Correct)

....penalty term regulating the generalization performance of the SVM. **Upon** training, only a fraction of the  $s$  will be nonzero. **The** architecture of the SVM in classification is shown in Fig. 1. **SVMs have demonstrated good generalization performance in face recognition [26] text categorization [27], and optical character recognition [28] 29] It has also been applied to data from gene expression [30] DNA and protein analysis [31] 32] D. MOGs** As mentioned in Section I, the generative approach is to model the class conditional density. Since the **input** of the glaucoma data contains ....

S. T. Dumais, J. Platt, D. Heckerman, and M. Sahami, "Inductive learning algorithms and representations for text categorization," in Proc. ACM-Conf. Information and Knowledge Management (CIKM98), Nov 1998, pp. 148-155.

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Integrating Feature and Instance Selection - For Text Classification (Correct)

.... survey on feature and instance selection as two independent problems in the **context** of machine learning is presented in [3] In the **context** of information retrieval and text classification, several works have indicated that effective feature selection can enhance the performance of classifiers, In [5], [11] and [17] a few tens or hundreds of words maximize the performance of a range of classifiers. Similar results are reported in [9] [13] as well. SVMs are a notable exception to this since they

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No documents match Boolean query. Trying non-Boolean relevance query.

1000 documents found. Only retrieving 500 documents (System busy - maximum reduced). Retrieving documents... Order: relevance to query.

WebWatcher: Machine Learning and Hypertext - Thorsten Joachims (1995) [\(Correct\)](#) [\(2 citations\)](#)  
noted the need for software that helps the user **search** for information. This paper describes the design facing is similar to the problem of Collaborative **Filtering** [Resnick, 1994] The target function we want to is knowledge in the nodes of the graph encoded as **text**. We have begun to explore ways of using this **text**  
mobile.csie.ntu.edu.tw/~yjhsu/courses/u1760/papers/webwatcher.ps.gz

An On-Line Cursive Word Recognition System - Seni, Nasrabadi, Srihari (1994) [\(Correct\)](#)  
word. Such string is then passed to a procedure **search(ff)** which has knowledge about how to derive ASCII cursive words. The system first uses a **filtering module**, based on simple letter features, to quickly cursive words. The system first uses a **filtering module**, based on simple letter features, to  
www.cedar.buffalo.edu/Linguistics/papers/ieee.ps

Results and Challenges in Web Search Evaluation - Hawking, Craswell, Thistlewaite (1999) [\(Correct\)](#) [\(11 citations\)](#)

Results and Challenges in **Web Search** Evaluation David Hawking  
from **pages**. It is not known whether any such **filtering** was applied by the Internet Archive. 2.2 Access is being used in an evaluation framework within the **Text** Retrieval Conference (TREC) and will hopefully  
pastime.anu.edu.au/TAR/www8.ps.gz

Human Performance on Clustering Web Pages: A.. - Macskassy, Banerjee.. (1998) [\(Correct\)](#) [\(5 citations\)](#)  
using multiple queries or using a topic-specific **search** engine. One way to help in the **search** is by fewer clusters than those with access to the full **text** of each **web page**. Generally the overlap of York, August 1998 1 Human Performance on Clustering **Web Pages: A Preliminary Study** Sofus A. Macskassy,  
www.cs.rutgers.edu/~davison/pubs/kdd98.ps

Book Recommending Using Text Categorization with Extracted.. - Mooney (1998) [\(Correct\)](#) [\(3 citations\)](#)  
and Building a Database First, an Amazon subject **search** is performed to obtain a list of book-description of computerized matchmaking called collaborative **filtering**. The system maintains a database of the in the AAAI-98/ICML-98 Workshop on Learning for **Text** Categorization and the AAAI-98 Workshop on  
ftp.cs.utexas.edu/pub/mooney/papers/libra-textcat98.ps.gz

First-Order Learning for Web Mining - Craven (1998) [\(Correct\)](#) [\(7 citations\)](#)  
of learning a concept definition that specifies **search**-control rules for navigating the **Web**. In general, A variety of applications, including information **filtering** systems and browsing assistants, have used context. Cohen [1] has used first-order methods for **text** classification, but the focus was on finding  
www.cs.cmu.edu/afs/cs.cmu.edu/project/theo-11/www/wwwkb/ecml98.ps.gz

Personal WebWatcher: design and implementation - Mladenic (1996) [\(Correct\)](#) [\(2 citations\)](#)  
to browse the Internet on behalf of a user "It **searches** the World Wide **Web** taking bounded amount of user's shoulder" 4.1 Structure of the learning **module** Learner works in two versions: learning a new Lang [21] developed a system for electronic news **filtering** that uses **text**-learning to generate models of  
www.cs.cmu.edu/afs/cs.cmu.edu/project/theo-4/text-learning/www/pww/papers/PWW/pwwTR.ps.Z

Jambalaya: Using Multicast for Blind Distributed Web Searching .. - Navas, Hirsh (1998) [\(Correct\)](#)  
Using Multicast for Blind Distributed **Web Searching** and Advertising Julio C. Navas #and Haym  
Even when users decide to receive advertisements, **filters** can be used to weed-out unwanted advertisements  
o#er can often be just the first few lines of **text** from the document. Unless the author  
www.cs.rutgers.edu/pub/technical-reports/dcs-tr-377.ps.Z

Search and Ranking Algorithms for Locating Resources on the.. - Yuwono, Lee (1996) [\(Correct\)](#) [\(11 citations\)](#)  
**Search** and Ranking Algorithms for Locating Resources on

information retrieval, world wide **web** indexing, **text** database 1 Introduction The World Wide **Web** (WWW)  
Algorithms for Locating Resources on the World Wide **Web** Budi Yuwono Dik L. Lee Department of Computer and  
www.cs.bilkent.edu.tr/~gural/CS550/budidik.ps

Toolkits for a Distributed, Agent-Based Web Commerce System - Guanghao Yan (Correct)  
it more time consuming and difficult for people to **search** for information or to locate relevant **web** sites  
information selling strategies Communication **module** Transaction processor User interface Products  
3-5, 1998. Toolkits for a Distributed, Agent-Based **Web** Commerce System Guanghao Yan Wee-Keong Ng  
www.cais.ntu.edu.sg:8000/~wkn/paper/ec98.ps

The MetaCrawler Architecture for Resource Aggregation on the Web - Selberg, Etzioni (1997) (Correct)  
(55 citations)  
The MetaCrawler Softbot is a parallel **Web** **search** service that has been available at the University  
The Harness is implemented as a collection of **modules**, where each **module** represents a particular  
users desire, such as phrase **searching** or **filtering** by location, are often absent or require a  
www.cs.washington.edu/homes/speed/papers/ieee/ieee-metacrawler.ps

Building a Digital Library for Computer Science Research... - Ian Witten (1996) (Correct) (1 citation)  
report archives, and supports a variety of **search** types despite the fact that documents are not  
in several respects. First, it provides a full-text index of the entire contents of each document,  
a large number of documents, many of which are **web pages** rather than technical reports. The documents  
www.nzdl.org/publications/1996/ACSC.ps

Optimizing complex decision support queries for parallel... - Brunie, Kosch (1997) (Correct)  
allocation **module** coupled with a randomized **search** **module** to seek for the best parallelization  
It integrates an intelligent resource allocation **module** coupled with a randomized **search** **module** to seek  
optimization process. We implemented a first-last **page** cost model, including communication costs. Latency  
www.ens-lyon.fr/~hkosch/PDPTA97.ps.Z

Learning to Extract Symbolic Knowledge from the World... - Craven, DiPasquo.. (1998) (Correct) (66 citations)  
input URL and explores **pages** using a breadth-first **search** to follow links. Each explored **page** is examined,  
Improving learning accuracy in information **filtering**. In International Conference on Machine  
to Recognize Class Instances 11 5.1. Statistical **Text** Classification :  
www.cs.cmu.edu/~knigam/papers/webkb-tr98.ps.gz

Privacy Interfaces for Information Management - Lau, Etzioni, Weld (1999) (Correct) (7 citations)  
her browsing history automatically. A user can **search** her CLIO for **pages** which she has previously  
has visited that contain the phrase collaborative **filtering**. To discover pet owners, one might **search**  
a match against the document's URL instead of its textual content. There is an implicit conjunction over  
ftp.cs.washington.edu/tr/1998/02/UW-CSE-98-02-01.PS.Z

Interactive Modular Programming in Scheme - Tung (1992) (Correct) (2 citations)  
Abstract This paper presents a **module** system and a programming environment designed to  
ftp.cs.indiana.edu/indra/scheme-repository/doc/pubs/imp.ps.gz

Adverbs in the transfer module of MDS - Damova (1995) (Correct)  
Adverbs in the transfer **module** of MDS Mariana Damova Universitat Stuttgart  
www2.ims.uni-stuttgart.de/~mariana/vm-report-100.ps

Spacetime Constraints Revisited - Ngo, Marks (1993) (Correct) (58 citations)  
refine an initial trajectory. We propose a global **search** algorithm that is capable of generating multiple  
be described in summary as follows: ffl A dynamics **module** (x2.1) simulates a physically correct virtual  
Proceedings, Anaheim, California, August 1993, **pages** 343-350. c fl1993 ACM. Reproduced by permission  
www.merl.com/people/marks/spacetime.ps.gz

Machine Learning for Information Extraction in Informal Domains - Freitag (1998) (Correct) (20 citations)  
newsgroups where computers are offered for sale in **search** of one that matches a user's specifications. This  
which are implemented in Perl, make use of a Perl **module** called Token that defines Perl versions of most  
be present in a collection, so that some sort of **filtering** must be performed either before or during  
www.cs.cmu.edu/afs/cs/user/dayne/www/ps/diss-freitag.ps.Z

Global Integration of Visual Databases - Wendy Chang (1998) (Correct) (1 citation)

main components include the metadatabase, the **search** agent, and the query manager. The metadatabase the metadata and the templates. Three additional **modules**, metadata collector, template builder and systems are being developed that allow multiple **text** databases to be accessed over the Internet via [www.rit.edu/~wcceec/papers/icde98.ps](http://www.rit.edu/~wcceec/papers/icde98.ps)

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No documents match Boolean query. Trying non-Boolean relevance query.

1000 documents found. Only retrieving 250 documents (System busy - maximum reduced). Retrieving documents... Order: relevance to query.

Optimizing complex decision support queries for parallel.. - Brunie, Kosch (1997) (Correct)

allocation **module** coupled with a randomized **search module** to seek for the best parallelization It integrates an intelligent resource allocation **module** coupled with a randomized **search module** to seek finding an optimal execution scenario [3] In this **context** we use randomized **search** algorithms to present a [www.ens-lyon.fr/~hkosch/PDPTA97.ps.Z](http://www.ens-lyon.fr/~hkosch/PDPTA97.ps.Z)

Macro and Micro Perspectives of Multistrategy Learning - Reich (1994) (Correct) (6 citations)

nature of the learning method which uses weak **search** methods directed by the category utility a learning program for noisy domains that uses one **module** to extract object descriptions from data and Morgan Kaufmann, San Francisco, CA, 1994 **Macro and Micro Perspectives of Multistrategy Learning** Yoram [or.eng.tau.ac.il:7777/mi4.ps.Z](http://or.eng.tau.ac.il:7777/mi4.ps.Z)

Sub-element Indexing and Probabilistic Retrieval in the POSTGRES... - Fontaine (1995) (Correct) (1 citation)

current information retrieval systems use boolean **search** methods to request and retrieve documents. While words filtered out) are returned to the ranking **module** which determines the order in which the documents Sub-element **Indexing** and Probabilistic Retrieval in the POSTGRES [wuarchive.wustl.edu/packages/postgres/papers/CSD-95-876.ps.Z](http://wuarchive.wustl.edu/packages/postgres/papers/CSD-95-876.ps.Z)

Spacetime Constraints Revisited - Ngo, Marks (1993) (Correct) (58 citations)

refine an initial trajectory. We propose a global **search** algorithm that is capable of generating multiple be described in summary as follows: ffl A dynamics **module** (x2.1) simulates a physically correct virtual [www.merl.com/people/marks/spacetime.ps.gz](http://www.merl.com/people/marks/spacetime.ps.gz)

Preemption Policy for Hierarchical Cellular Network - Fabrice Valois (1998) (Correct)

served at **macro**cellular level. The policy then **searches** a P customer which can be moved from Abstract-In multitier cellular networks, **micro**cells are designed to achieve high spot urban [www.prism.uvsq.fr/rapports/1998/document\\_1998\\_26.ps.gz](http://www.prism.uvsq.fr/rapports/1998/document_1998_26.ps.gz)

Micro Planning for Mechanical Assembly Operations - Gupta, Paredis, Brown (1998) (Correct)

a tool application position with 1-DOF requires a **search** through a 1-dimensional **search** space. To guide **Micro Planning for Mechanical Assembly Operations** S. Significant advances have been made in the area of **macro** planning for assembly operations (i.e.dividing [www.cgi.cs.cmu.edu/afs/cs.cmu.edu/user/cjp/www/pubs/ICRA98.ps.gz](http://www.cgi.cs.cmu.edu/afs/cs.cmu.edu/user/cjp/www/pubs/ICRA98.ps.gz)

An Abstract Interpreter for Improving the Efficiency... - Ciampolini, Lamma.. (1996) (Correct)

raised. The binding requires to perform a dynamic **search** in the run-time program representation. For work, we focus on modular logic languages where **module** composition is performed through union of clauses Apto. 8900, Caracas 1080 A, Venezuela minimal **contexts** Modular Logic Programs, Static Analysis, [www-lia.deis.unibo.it/Research/TechReport/lia96002.ps.Z](http://www-lia.deis.unibo.it/Research/TechReport/lia96002.ps.Z)

Complexity of Finding Alphabet Indexing - Shimozone, Miyano (1995) (Correct)

the problem is NP-complete. Then we give a local **search** algorithm for this problem and show a result on Complexity of Finding Alphabet **Indexing** Shinichi Shimozone Department of Control and Q of strings over an alphabet 6, an alphabet **indexing** /for P Q by an **indexing** alphabet 0 with j0j ! [www.i.kyushu-u.ac.jp/TR/61.ps.Z](http://www.i.kyushu-u.ac.jp/TR/61.ps.Z)

Variance and Uncertainty Measures of Population Diversity Dynamics - Mark Bedau (1995) (Correct)

and natural settings, for this facilitates the **search** for universal features of evolutionary dynamics. Evolving systems have a two-tier structure: a **micro** level consisting of individuals whose behavior is governed by some explicit dynamics and a **macro** level consisting of the population as a whole [www.sysc.pdx.edu/Faculty/Zwick/Papers/bz1.ps](http://www.sysc.pdx.edu/Faculty/Zwick/Papers/bz1.ps)

Scenario Recognition in Airborne Video Imagery - Br mond, Medioni (Correct)

We then illustrate how the scenario recognition **module** works through an example of utilization. Finally, behaviors. This third **module** uses two kinds of **context** (defined as a priori information on the scene [iris.usc.edu/Outlines/vsam/wkspBremondMedioni.ps.gz](http://iris.usc.edu/Outlines/vsam/wkspBremondMedioni.ps.gz)

Duration Calculus of Weakly Monotonic Time - Pandya, Van Hung (1997) (Correct) (11 citations)

of points on the path. Each such point is called a **micro** time point and represented by a tuple (t i) sequence of state changes to occur at a single "**macro**" time point. The resulting notion of time has [ftp.iist.unu.edu/pub/techreports/published\\_papers/paper-report122.ps.gz](http://ftp.iist.unu.edu/pub/techreports/published_papers/paper-report122.ps.gz)

Optimization of Three-Dimensional Catalyst Pore Structures - Rieckmann, Keil (1994) (Correct)

optimization calculations of pore structure with a **micro-macro**-pore model [3]In this work ,we have calculations of pore structure with a **micro-macro**-pore model [3]In this work ,we have taken by Eisenstat [2]Optimization The performance **index** was the mole flow of product averaged over the [pc50.vt4.tu-harburg.de/pub/doc/veroeff\\_32.ps.gz](http://pc50.vt4.tu-harburg.de/pub/doc/veroeff_32.ps.gz)

A Multimodal Computer-augmented Interface for Distributed.. - Julia, CHEYER (1995) (Correct)

and PDAs)augmented with voice input over a **microphone** or a telephone, depending on where the work with one modality or another. 2. MMAAR (**Micro/Macro** Agent ARchitecture) In this section, we propose [ftp.speech.sri.com/pub/people/julia/papers/hcii95.ps.gz](http://ftp.speech.sri.com/pub/people/julia/papers/hcii95.ps.gz)

An experimental study of SB-trees - Paolo Ferragina, Roberto Grossi (1996) (Correct)

a practical setting by running a large number of **searching** and updating experiments. We obtain fast K. Genome analysis: Pattern **search** in biological **macromolecules**. In Combinatorial Pattern Matching [www.di.unipi.it/~ferragin/Latex/jsoda96.ps.gz](http://www.di.unipi.it/~ferragin/Latex/jsoda96.ps.gz)

SodaJack: an architecture for agents that search for and.. - Geib, Levison, Moore (1994) (Correct) (12 citations)

Science SodaJack: An Architecture For Agents That **Search** For And Manipulate Objects by Christopher Geib Two of these planners are special-purpose **modules** which contribute **context**-specific plans for the are special-purpose **modules** which contribute **context**-specific plans for the tasks of **searching** for [ftp.cis.upenn.edu/pub/frcs/tr/94-31.ps.Z](http://ftp.cis.upenn.edu/pub/frcs/tr/94-31.ps.Z)

A Bayesian framework for content-based indexing and retrieval - Vasconcelos, Lippman (1998) (Correct) (2 citations)

significant limitations of the query by example **search** paradigm, and all the model parameters can be framework for **indexing** and retrieval in the **context** of large multimedia databases. All the **indexing** A Bayesian framework for content-based **indexing** and retrieval Nuno Vasconcelos and Andrew [www.media.mit.edu/~nuno/Papers/BayesRetrieval.ps.gz](http://www.media.mit.edu/~nuno/Papers/BayesRetrieval.ps.gz)

acquire-macros: An Algorithm for Automatically Learning.. - McGovern (1998) (Correct) (1 citation)

peaks in the evaluation function of a best-first **search** system and constructed **macro**operators out of the and Hierarchy in Reinforcement Learning 1 acquire-macros: An Algorithm for Automatically Learning [www-anw.cs.umass.edu/~amy/pubs/mcgovern\\_nips98\\_workshop.ps.gz](http://www-anw.cs.umass.edu/~amy/pubs/mcgovern_nips98_workshop.ps.gz)

Reactive Shared Variables Based Systems Syst mes r actifs 'a.. - Fr d  (Correct)

systems where components (named **modules**) use shared variables to communicate. Each of a global system reaction made out of **module** **micro**-reactions, or alternatively of global instants **modules** appears as first parameter of the System **macro**. **Module** are implemented as RC reactive procedures [ftp-sop.inria.fr/meije/rc/rapport19-93.ps](http://ftp-sop.inria.fr/meije/rc/rapport19-93.ps)

On the Computational Utility of Consciousness - Mathis, Mozer (1995) (Correct) (4 citations)

mapping 1 followed by a slower relaxation **search** (Figure 1)The computational justification for persistent states in a network of computational **modules**. Three simulations are described illustrating here we simply present the framework in the **context** of previous experimental and theoretical work, [ftp.cs.colorado.edu/users/mozer/papers/computil.ps](http://ftp.cs.colorado.edu/users/mozer/papers/computil.ps)

Vector Based Image Matching for Indexing in Case.. - Jose, Singh.. (Correct)

abstraction helps the system to avoid an in-depth **search** of those cases which are entirely different from only for those images which contain man-made **macro** objects such as refineries, steel plants etc. The Some of the features of this system in our **context** are the following. 5.1 Support for complex data